

RAW SEQUENCE LISTING*Re-run*

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/520,741
Source: IFW
Date Processed by STIC: 4/14/06

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Re-run

IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/520,741

DATE: 10/03/2006

TIME: 08:32:47

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\10032006\J520741.raw

3 <110> APPLICANT: Sema ApS
4 Albrechtsen, Morten
5 Christensen, Claus
6 Lukanidin, Eugene
7 Olesen, Ole
9 <120> TITLE OF INVENTION: Use of compounds capable of inhibiting the proteolytic
processing of
10 semaphorins for prevention, treatment, diagnosis and prognosis of an invasive
11 disease
13 <130> FILE REFERENCE: P682 PC00
C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/520,741
C--> 15 <141> CURRENT FILING DATE: 2005-01-11
15 <150> PRIOR APPLICATION NUMBER: PCT/DK03/00483
16 <151> PRIOR FILING DATE: 2003-07-11
18 <160> NUMBER OF SEQ ID NOS: 30
20 <170> SOFTWARE: PatentIn version 3.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 775
24 <212> TYPE: PRT
25 <213> ORGANISM: Mus sp.
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33 Leu Glu Leu Trp Thr Pro Gly His Ser Ala Asn Pro Ser Tyr Pro Arg
34 20 25 30
37 Leu Arg Leu Ser His Lys Glu Leu Leu Glu Leu Asn Arg Thr Ser Ile
38 35 40 45
41 Phe Gln Ser Pro Leu Gly Phe Leu Asp Leu His Thr Met Leu Leu Asp
42 50 55 60
45 Glu Tyr Gln Glu Arg Leu Phe Val Gly Gly Arg Asp Leu Val Tyr Ser
46 65 70 75 80
49 Leu Asn Leu Glu Arg Val Ser Asp Gly Tyr Arg Glu Ile Tyr Trp Pro
50 85 90 95
53 Ser Thr Ala Val Lys Val Glu Glu Cys Ile Met Lys Gly Lys Asp Ala
54 100 105 110
57 Asn Glu Cys Ala Asn Tyr Ile Arg Val Leu His His Tyr Asn Arg Thr
58 115 120 125
61 His Leu Leu Thr Cys Ala Thr Gly Ala Phe Asp Pro His Cys Ala Phe
62 130 135 140
65 Ile Arg Val Gly His His Ser Glu Glu Pro Leu Phe His Leu Glu Ser
66 145 150 155 160
69 His Arg Ser Glu Arg Gly Arg Gly Arg Cys Pro Phe Asp Pro Asn Ser
70 165 170 175
73 Ser Phe Val Ser Thr Leu Val Gly Asn Glu Leu Phe Ala Gly Leu Tyr

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74 180 185 190
77 Ser Asp Tyr Trp Gly Arg Asp Ser Ala Ile Phe Arg Ser Met Gly Lys
78 195 200 205
81 Leu Gly His Ile Arg Thr Glu His Asp Asp Glu Arg Leu Leu Lys Glu
82 210 215 220
85 Pro Lys Phe Val Gly Ser Tyr Met Ile Pro Asp Asn Glu Asp Arg Asp
86 225 230 235 240
89 Asp Asn Lys Met Tyr Phe Phe Phe Thr Glu Lys Ala Leu Glu Ala Glu
90 245 250 255
93 Asn Asn Ala His Thr Ile Tyr Thr Arg Val Gly Arg Leu Cys Val Asn
94 260 265 270
97 Asp Met Gly Gly Gln Arg Ile Leu Val Asn Lys Trp Ser Thr Phe Leu
98 275 280 285
101 Lys Ala Arg Leu Val Cys Ser Val Pro Gly Met Asn Gly Ile Asp Thr
102 290 295 300
105 Tyr Phe Asp Glu Leu Glu Asp Val Phe Leu Leu Pro Thr Arg Asp Pro
106 305 310 315 320
109 Lys Asn Pro Val Ile Phe Gly Leu Phe Asn Thr Thr Ser Asn Ile Phe
110 325 330 335
113 Arg Gly His Ala Val Cys Val Tyr His Met Ser Ser Ile Arg Glu Ala
114 340 345 350
117 Phe Asn Gly Pro Tyr Ala His Lys Glu Gly Pro Glu Tyr His Trp Ser
118 355 360 365
121 Leu Tyr Glu Gly Lys Val Pro Tyr Pro Arg Pro Gly Ser Cys Ala Ser
122 370 375 380
125 Lys Val Asn Gly Gly Lys Tyr Gly Thr Thr Lys Asp Tyr Pro Asp Asp
126 385 390 395 400
129 Ala Ile Arg Phe Ala Arg Ile Asp Pro Leu Met Tyr Gln Pro Ile Lys
130 405 410 415
133 Pro Val His Lys Lys Pro Ile Leu Val Lys Thr Asp Gly Lys Tyr Asn
134 420 425 430
137 Leu Arg Gln Leu Ala Val Asp Arg Val Glu Ala Glu Asp Gly Gln Tyr
138 435 440 445
141 Asp Val Leu Phe Ile Gly Thr Asp Thr Gly Ile Val Leu Lys Val Ile
142 450 455 460
145 Thr Ile Tyr Asn Gln Glu Thr Glu Trp Met Glu Glu Val Ile Leu Glu
146 465 470 475 480
149 Glu Leu Gln Ile Phe Lys Asp Pro Ala Pro Ile Ile Ser Met Glu Ile
150 485 490 495
153 Ser Ser Lys Arg Gln Gln Leu Tyr Ile Gly Ser Ala Ser Ala Val Ala
154 500 505 510
157 Gln Val Arg Phe His His Cys Asp Met Tyr Gly Ser Ala Cys Ala Asp
158 515 520 525
161 Cys Cys Leu Ala Arg Asp Pro Tyr Cys Ala Trp Asp Gly Ile Ser Cys
162 530 535 540
165 Ser Arg Tyr Tyr Pro Thr Gly Ala His Ala Lys Arg Arg Phe Arg Arg
166 545 550 555 560
169 Gln Asp Val Arg His Gly Asn Ala Ala Gln Gln Cys Phe Gly Gln Gln
170 565 570 575

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173 Phe Val Gly Asp Ala Leu Asp Arg Thr Glu Glu Arg Leu Ala Tyr Gly
174 580 585 590
177 Ile Glu Ser Asn Ser Thr Leu Leu Glu Cys Thr Pro Arg Ser Leu Gln
178 595 600 605
181 Ala Lys Val Ile Trp Phe Tyr Gln Lys Gly Arg Asp Val Arg Lys Glu
182 610 615 620
185 Glu Val Lys Thr Asp Asp Arg Val Val Lys Met Asp Leu Gly Leu Leu
186 625 630 635 640
189 Phe Leu Arg Val Arg Lys Ser Asp Ala Gly Thr Tyr Phe Cys Gln Thr
190 645 650 655
193 Val Glu His Asn Phe Val His Thr Val Arg Lys Ile Thr Leu Glu Val
194 660 665 670
197 Val Glu Glu His Lys Val Glu Gly Met Phe His Lys Asp His Glu Glu
198 675 680 685
201 Glu Arg His His Lys Met Pro Cys Pro Pro Leu Ser Gly Met Ser Gln
202 690 695 700
205 Gly Thr Lys Pro Trp Tyr Lys Glu Phe Leu Gln Leu Ile Gly Tyr Ser
206 705 710 715 720
209 Asn Phe Gln Arg Val Glu Glu Tyr Cys Glu Lys Val Trp Cys Thr Asp
210 725 730 735
213 Lys Lys Arg Lys Lys Leu Lys Met Ser Pro Ser Lys Trp Lys Tyr Ala
214 740 745 750
217 Asn Pro Gln Glu Lys Arg Leu Arg Ser Lys Ala Glu His Phe Arg Leu
218 755 760 765
221 Pro Arg His Thr Leu Leu Ser
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225 <210> SEQ ID NO: 2
226 <211> LENGTH: 775
227 <212> TYPE: PRT
228 <213> ORGANISM: Mus sp.
230 <400> SEQUENCE: 2
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236 Leu Glu Leu Trp Thr Gly Gly His Thr Ala Asp Thr Thr His Pro Arg
237 20 25 30
240 Leu Arg Leu Ser His Lys Glu Leu Leu Asn Leu Asn Arg Thr Ser Ile
241 35 40 45
244 Phe His Ser Pro Phe Gly Phe Leu Asp Leu His Thr Met Leu Leu Asp
245 50 55 60
248 Glu Tyr Gln Glu Arg Leu Phe Val Gly Gly Arg Asp Leu Val Tyr Ser
249 65 70 75 80
252 Leu Ser Leu Glu Arg Ile Ser Asp Gly Tyr Lys Glu Ile His Trp Pro
253 85 90 95
256 Ser Thr Ala Leu Lys Met Glu Glu Cys Ile Met Lys Gly Lys Asp Ala
257 100 105 110
260 Gly Glu Cys Ala Asn Tyr Val Arg Val Leu His His Tyr Asn Arg Thr
261 115 120 125
264 His Leu Leu Thr Cys Gly Thr Gly Ala Phe Asp Pro Val Cys Ala Phe
265 130 135 140

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268 Ile Arg Val Gly Tyr His Leu Glu Asp Pro Leu Phe His Leu Glu Ser
269 145 150 155 160
272 Pro Arg Ser Glu Arg Gly Arg Gly Arg Cys Pro Phe Asp Pro Ser Ser
273 165 170 175
276 Ser Phe Ile Ser Thr Leu Ile Gly Ser Glu Leu Phe Ala Gly Leu Tyr
277 180 185 190
280 Ser Asp Tyr Trp Ser Arg Asp Ala Ala Ile Phe Arg Ser Met Gly Arg
281 195 200 205
284 Leu Ala His Ile Arg Thr Glu His Asp Asp Glu Arg Leu Leu Lys Glu
285 210 215 220
288 Pro Lys Phe Val Gly Ser Tyr Met Ile Pro Asp Asn Glu Asp Arg Asp
289 225 230 235 240
292 Asp Asn Lys Val Tyr Phe Phe Phe Thr Glu Lys Ala Leu Glu Ala Glu
293 245 250 255
296 Asn Asn Ala His Ala Ile Tyr Thr Arg Val Gly Arg Leu Cys Val Asn
297 260 265 270
300 Asp Val Gly Gly Gln Arg Ile Leu Val Asn Lys Trp Ser Thr Phe Leu
301 275 280 285
304 Lys Ala Arg Leu Val Cys Ser Val Pro Gly Met Asn Gly Ile Asp Thr
305 290 295 300
308 Tyr Phe Asp Glu Leu Glu Asp Val Phe Leu Leu Pro Thr Arg Asp His
309 305 310 315 320
312 Lys Asn Pro Val Ile Phe Gly Leu Phe Asn Thr Thr Ser Asn Ile Phe
313 325 330 335
316 Arg Gly His Ala Ile Cys Val Tyr His Met Ser Ser Ile Arg Ala Ala
317 340 345 350
320 Phe Asn Gly Pro Tyr Ala His Lys Glu Gly Pro Glu Tyr His Trp Ser
321 355 360 365
324 Val Tyr Glu Gly Lys Val Pro Tyr Pro Arg Pro Gly Ser Cys Ala Ser
325 370 375 380
328 Lys Val Asn Gly Gly Arg Tyr Gly Thr Thr Lys Asp Tyr Pro Asp Asp
329 385 390 395 400
332 Ala Ile Arg Phe Ala Arg Ser His Pro Leu Met Tyr Gln Ala Ile Lys
333 405 410 415
336 Pro Ala His Lys Lys Pro Ile Leu Val Lys Thr Asp Gly Lys Tyr Asn
337 420 425 430
340 Leu Lys Gln Ile Ala Val Asp Arg Val Glu Ala Glu Asp Gly Gln Tyr
341 435 440 445
344 Asp Val Leu Phe Ile Gly Thr Asp Asn Gly Ile Val Leu Lys Val Ile
345 450 455 460
348 Thr Ile Tyr Asn Gln Glu Met Glu Ser Met Glu Glu Val Ile Leu Glu
349 465 470 475 480
352 Glu Leu Gln Ile Phe Lys Asp Pro Val Pro Ile Ile Ser Met Glu Ile
353 485 490 495
356 Ser Ser Lys Arg Gln Gln Leu Tyr Ile Gly Ser Ala Ser Ala Val Ala
357 500 505 510
360 Gln Val Arg Phe His His Cys Asp Met Tyr Gly Ser Ala Cys Ala Asp
361 515 520 525
364 Cys Cys Leu Ala Arg Asp Pro Tyr Cys Ala Trp Asp Gly Ile Ser Cys

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Input Set : A:\PTO.AMC.txt

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365 530 535 540
368 Ser Arg Tyr Tyr Pro Thr Gly Thr His Ala Lys Arg Arg Phe Arg Arg
369 545 550 555 560
372 Gln Asp Val Arg His Gly Asn Ala Ala Gln Gln Cys Phe Gly Gln Gln
373 565 570 575
376 Phe Val Gly Asp Ala Leu Asp Lys Thr Glu Glu His Leu Ala Tyr Gly
377 580 585 590
380 Ile Glu Asn Asn Ser Thr Leu Leu Glu Cys Thr Pro Arg Ser Leu Gln
381 595 600 605
384 Ala Lys Val Ile Trp Phe Val Gln Lys Gly Arg Glu Thr Arg Lys Glu
385 610 615 620
388 Glu Val Lys Thr Asp Asp Arg Val Val Lys Met Asp Leu Gly Leu Leu
389 625 630 635 640
392 Phe Leu Arg Leu His Lys Ser Asp Ala Gly Thr Tyr Phe Cys Gln Thr
393 645 650 655
396 Val Glu His Ser Phe Val His Thr Val Arg Lys Ile Thr Leu Glu Val
397 660 665 670
400 Val Glu Glu Glu Lys Val Glu Asp Met Phe Asn Lys Asp Asp Glu Glu
401 675 680 685
404 Asp Arg His His Arg Met Pro Cys Pro Ala Gln Ser Ser Ile Ser Gln
405 690 695 700
408 Gly Ala Lys Pro Trp Tyr Lys Glu Phe Leu Gln Leu Ile Gly Tyr Ser
409 705 710 715 720
412 Asn Phe Gln Arg Val Glu Glu Tyr Cys Glu Lys Val Trp Cys Thr Asp
413 725 730 735
416 Arg Lys Arg Lys Lys Leu Lys Met Ser Pro Ser Lys Trp Lys Tyr Ala
417 740 745 750
420 Asn Pro Gln Glu Lys Lys Leu Arg Ser Lys Pro Glu His Tyr Arg Leu
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424 Pro Arg His Thr Leu Asp Ser
425 770 775
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429 <211> LENGTH: 560
430 <212> TYPE: PRT
431 <213> ORGANISM: Mus sp.
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439 Leu Glu Leu Trp Thr Pro Gly His Ser Ala Asn Pro Ser Tyr Pro Arg
440 20 25 30
443 Leu Arg Leu Ser His Lys Glu Leu Leu Glu Leu Asn Arg Thr Ser Ile
444 35 40 45
447 Phe Gln Ser Pro Leu Gly Phe Leu Asp Leu His Thr Met Leu Leu Asp
448 50 55 60
451 Glu Tyr Gln Glu Arg Leu Phe Val Gly Gly Arg Asp Leu Val Tyr Ser
452 65 70 75 80
455 Leu Asn Leu Glu Arg Val Ser Asp Gly Tyr Arg Glu Ile Tyr Trp Pro
456 85 90 95
459 Ser Thr Ala Val Lys Val Glu Glu Cys Ile Met Lys Gly Lys Asp Ala

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/520,741

DATE: 10/03/2006

TIME: 08:32:48

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\10032006\J520741.raw

L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date